

TRADE NOTES.

Dr. E. H. Brown's Service of Gas
Supply.

Deerfoot is the source of Some
Common Systems.

Great Influence of the Temperature
on the Health.

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The heating of the apartment in which we pass the greater portion of our lives is a subject which at this time of the year is second to none others in importance and it is strange that notwithstanding the advances which science has made in this respect there should be in general so little a regard on the part of housekeepers of the principles by which they should be governed. Propose therefore in this paper to consider the matter somewhat at length, with the hope that those who are most concerned will do what they can to avoid some of the inconveniences and dangers to which as they now live they are subjected.

The substances which are used to produce heat must contain a large amount of carbon and hydrogen in order to be economical. These being the matters which by their combustion cause the greatest evolution of heat. These substances are known as fuel, and are of vegetable or organic origin. Those of the first named class are wood, peat or turf, lignite, bituminous and anthracite coals, petro-gum, wood charcoal, peat charcoal, coke or charcoal from coal, a coke, and vegetable oils, with some others of minor importance.

The animals of which are occasionally used for heating purposes (as, for instance, in the ovens of river steam-boat racing, when barrels of beans were, in the excitement of the moment, not infrequently used for keeping up a good heat of steam), but their employment in this direction is decreasing.

In late years natural gas, a so-called vegetable origin, has been found in large deposits, and has been largely used for heating purposes, and inuminating gas, or artificial production but of similar characteristics is likewise employed to no small extent in the same direction.

Hydrogen is evidently the best giving substance but if it were possible, with a due regard to economy, to burn this gas in its pure state for the purpose of warming our dwellings, it would accomplish its object in a way far removed from that to be desired. One pound of hydrogen will raise 336 pounds of water from 32 degrees to 22 degrees Fahrenheit, while good coal will only heat 30 pounds of water 100 degrees and dry wood only 36 degrees through the same range of temperatures. Moreover, hydrogen in burning requires no other substance than water, and therefore it stands at the head from a sanitary point of view.

But the compound bodies men know, which combine hydrogen in large quantity, have associated with them other substances, which in the process of combustion give origin to vapors and gases which are injurious to the atmosphere. Thus the various forms of coal contain sulfur, from which sulfurous acid and sulfuretted hydrogen are formed—but in the highest degree are reduced to zero. Nitrogen is present, and uniting with hydrogen gives origin to ammonia which is extremely irritating to the respiratory passages. A portion of the carbon unites with a portion of the nitrogen and hydrogen, and hydrocyanic acid is produced, not in large quantities, but yet in sufficient amount to not be removed, to cause very considerable disengagement of heat by the organism. The rest of the carbon which is consumed unites with the oxygen of the air to form carbonic acid, and carbonic oxide. This latter is a substance extremely poisonous in its action on the system when introduced into the lungs, but from bituminous coal, a considerable amount escapes unconsumed in the form of smoke, which consists of small particles of pure carbon. In many places where large quantities of bituminous coal are burned the smoke is a source of great discomfort. Coal during combustion yields sulphuric acid, carbonic acid and carbonic oxide, and charcoal so gives rise to the two last-named substances while burning. The many suicides and accidents, deaths which have been caused by burning coal have been due to the inhalation of the carbonic oxide evolved during the process. Wood when burned gives off a large quantity of carbon in the form of smoke, the vapor of water, emphysematic substances, among which creosote is the chief.

Now, in order to obtain heat from the window, the same time securing our safety, the action of the two substances mentioned various contrivances have been devised which will more or less completely allow of the removal of the injurious matters, or which are placed at a distance from the apartments to be warmed and sent through the medium of water, steam or by current of air. These are open fireplaces, furnaces supplying hot air, steam apparatus and hot-water apparatus.

THE OPEN FIREPLACE HEATERS. The open fireplace is on several accounts to be preferred to any other

means of heating an apartment. It insures, when we construct, the removal of those products of combustion which tend to give the atmosphere, very rapidly becomes tainted by the smoke. People pass from their interiors and the same smoke causes a strong current of air to pass from the room through the chimney, by which a tolerable effect ventilation is produced.

But it has certain objectionable features which preclude its employment. When a steady and uniform heat is required and when it is especially desirable to avoid irregular currents of air, there is no alternative for use in a large room, such as hospital wards, where many sick persons are present. If wood is the fuel used, the frequent necessity of renewing the fire, the lowering of the temperature which ensues if there is enough to warm the skin was being charged with mortis rapidly. Slight evaporation of heat through the body is a surprise that persons were annoyed with coldness of the extremities and were haggard and giddy. Through the morning, and the day were affected with a most constant headache, dyspepsia and other afflictions.

Yet it is impossible to avoid the exhalation of a portion of the deleterious gases

which are throughout the chamber, and the dust in the form of ashes will probably scatter effects seriously to the inconvenience and uneasiness. In addition, the warmth from a fireplace is not generally diffused throughout the room. The heat is a most entire communicated by direct radiation, and consequently will be lost of the body turned towards the fire is heated perhaps to excess, the portions not exposed to the rays of heat are not sufficiently warmer.

On the other hand, again, the easiness important to be mind of the sign of an open fire should not be overestimated, and the influence of the heat emitted is a so important element in the consideration of the subject; so that while, as has been said, the operation of the use of open fireaces is a great convenience to those inhabiting by sick persons, are a most insuremorate, the advantages from them will always cause their employment in smaller rooms increased, but by one or two persons and in cases where economy is no object. When used wood is to be preferred, and next, good bituminous coal. The gases evolved from anthracite, coke and charcoal are much more deleterious and, as has been said, a portion will unavoidably escape into the air of the room. There are many persons who cannot endure an anthracite or coke fire in an open fireplace without headache or bronchitis, irritation being the inevitable consequence.

Stoves are of so many different patterns that to select a good one, or even a bad one, would require more space than can be devoted to their consideration. There are certain general factors, such as the size and the form of which the fires are made, the heat from the water contained in the boiler, and of the brickwork around the boiler, it is found that a well-warmed water will maintain its temperature after it has been extinguished about six or eight times as long as would if it were heated with steam.

The air warmed by steam is not based on the fact which comes in contact with the heated surface of a stove, and hence is not derived from an equal extent of moisture. It is therefore less irritating to the lungs and being a source of uncontaminated by vapors and gases given off by the burning fuel, is a greater preferable to any other means of heating.

There are many forms of steam-heating apparatus in use some of which are preferable to others. The subject in these relations will be restricted from the works specially devoted to the consideration of the principles of artificial

heat, from the water contained in the boiler, and of the brickwork around the boiler, it is found that a well-warmed water will maintain its temperature after it has been extinguished about six or eight times as long as would if it were heated with steam.

Another question arises from the dryness of the atmosphere which is produced by a stove. It is customary to have a vessel on top of the stove containing water, by the evaporation of which the air is purified, and it is not altogether good, but it is a better preferable to any other means of heating.

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Furnaces placed at a distance from the apartments to be heated, generally, when they are modifications of the ordinary stove, differing only in the fact that air is brought to the stove heated by conduction and then allowed to ascend to the rooms through pipes or flues. It is most invariably the case that rooms are overheated and that proper precautions are taken to insure a supply of fresh air from the outside. Persons therefor will be able to provide for the freezing of the air and to provide for the removal of the moisture, this method of warming is not very objectionable.

However, it happens that worse a winter is never exceed 35 degrees and this should exist throughout the day, so that there will be no need for closing doors, and windows.

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Buildings are sometimes heated by steam, which some is considered to possess advantages over hot water used in a similar manner.

A boiler is fitted in a convenient place and the steam is either conveyed in pipes directly to the rooms to be heated or hot air is caused to come in contact with coils of pipe containing steam and then admitted to the apartments.

The chief disadvantage of steam as a heating agent consists in the fact that it is difficult to regulate the temperature.

The pipes must be set at 210° Fahrenheit, or condensation of the vapor at once takes place and water is formed.

Passing from a pipe of vapor to that of a liquid steam pipe will, however, become sensible, and thus the temperature of the pipes is raised. The steam heat of steam being 210°, a great

source of heat, is thus a command;

but if the pipes are a few degrees again in 210° degrees a great deal of steam is condensed, and so on till the pipe of the steam is converted into water and has parted from the steam.

It now occupies but a small part of the space as water instead of steam, and consequently has a heating power equivalent to that of a large bulk of water.

For instance, the heating power of steam compared to that of water is as 1 to 288—that is, a cubic foot of water will give as much heat as a cubic foot of steam in passing from 212 degrees to 100 degrees. Bringing into consideration the expense of labor, the cost of steam will receive preparations to fit out the United States steamer "The Ida" for a transatlantic voyage.

OTTAWA, November 2.—Copper, minister of marine, having had the expectation of the United States steamer "The Ida" which has for its object the relief of Arctic whaling grounds called off its station, has it said, under consideration the question of sending a Canadian vessel to assist it.

THE WHALE IS SAFE.

OTTAWA, November 2.—The steam whaler "Brasier" arrived from the Arctic this afternoon and brought the information that the thirteen whalers which were caught in the ice pack of the St. Lawrence River were safe.

After the vessel had been imprisoned nine days, a gale sprung up and the ice began to break. The whaling captain took the opportunity to release the vessels, and in a day or two all were safely out.

Condition of Trade.

NEW YORK, November 2.—R. G. Dur & Co.'s Weekly Review of Trade says:

The simple fact is that trade exchanges outside of New York in the last week

are still more favorable than by 10 per cent.

The tonnage of the trades is increasing.

Trade is also increasing.

RUSSIAN CHILDREN.

SOVETING ABOUT THE LIFE AT HOME AND IN SCHOOL.

Children Will Be Children Wherever They Are, but the Children of Russia Have Some Peculiarities Not Shared by the Children of Other Lands.

Special Correspondence.

New York, Sept. 28.—Well, may it go without saying, whether any intelligent child in the entire extent of the United States could ever be induced to exchange us, or that of the European child, were he to know the exact way children are managed in European countries?—Very indeed are the burdens borne by children's shoulders in the Old World—but nowhere as heavy as in Russia!



VILLAGE SCHOOL.

Families and towns throughout the land may be heavy enough in Germany, France, Belgium and other countries, but there studies are varied by divers exercises, military drills or turn-vvers to relieve the monotony of book-learning; there is the animation, the life of the streets in southern countries—a multitude of varied impressions to be gathered and observed and easily imbibed; children's eyes meet the open sky when they are allowed to run unstricted.

In Northern Russia, however, everything seems combine to weigh down a healthy child's spirit, if, just as it is even the climate, which makes it impossible to venture out of doors without heavy wraps for fully half of the year, whilst for two or three other months rains and frosts make the roads entirely impassable in places outside of cities.

Of course, children will be children everywhere. Even in Russia the youngsters brave the elements whenever they can. But then, even hardy peasant boys cannot run much about the snow barefoot, as they go the year round at home, feet are apt to freeze even to bone protected by simple made-out-of-branched strips of birch bark, the legs being bandaged with coarse strips of linen, instead of stockings—the regular peasant footgear, unless it be the warm high felt boots rarely provided for children. As to the streets of the Russian cities, not only exhilarating snowballing, but even all quiet games are prohibited in them. The idea of stopping in the street for play seems never to enter the head of a Russian youngster of good, though irregular street ragamuffins manage to find some sport where to indulge in the disruption of a play of "hobby," the equivalent of the American game of marbles, the marble-thrown boy being repressed among the bustling young population, however, by bones of calves' or pigs' feet, with which boys themselves as to spare so much trouble to the stern guardians of the peace.

Were two youngsters to have the chance to play ball in one of the large cities throughout Russia, that won't surely attract a squadron of mounted gendarmes or Cossacks, who would beat them most likely in the nearest station house, were not the youngsters to take their heels before so as to spare so much trouble to the stern guardians of the peace.

Upon the whole, much of the children's time is passed indoors, and most of their leisure is devoted to reading. The majority of Russian children are voracious readers, and grow up to make industrious students. It is painful to notice, however, how early, notwithstanding their slow physical development, do they discard all children's ways, it is nothing out of common for 14-year-old boys of the gymnasium to pass a passion into interest in politics, to quarry about political questions, to be attracted, by the most radical doctrines, and even to conspire to overthrow the government. Many individuals, however, seem to bear the brunt of taxes for

work hard from 9 A.M. onwards, in, with only two permissions of five minutes duration each, and have half an hour for their midday meal, which again consisting but of a dry roll or, at best, a meager sandwich. During one, the children have a dinner of three courses at 4 in the afternoon, or else make a hasty do at something so full their hunger—a cup of tea and jam coming generally most hasty—and take their lessons for the next day until the regular 8.

Following dinner comes a half hour at 6 past 7 and almost as soon, children in the cities at their books, and there is no doing my study at an evening—with the intermission of two hours—between 8 and 9 P.M., the teacher having a cup of weak tea with bread and butter—about 15 cents. In the evening often 10 o'clock starts before the average conscientious schoolboy has had time to prepare their heavy tasks for the morrow—and they turn out to be weary and fatigued, and fall into an unequal sleep, two or three nightmares of terrors unforgotten, until the early morning, when some friend in hand wakes them at their own request to bid them say so, so as to give them once more over their hard lessons.

As far as the regime is concerned, even in well-to-do, intelligent families in Russia, it is scarcely worth wondering that only the strongest children survive.

But, notwithstanding this, who else's "angels of innocents," the ambition of all intelligent people is still upon providing their children with a university education, a high educational standard being considered indispensable in Russia for any one caring himself a gentleman.

The curriculum of the middle schools is kept very rigid in purpose, the government being intent upon turning out as many young men as possible from the universities, too much learning in the masses being held to constitute a danger to the stability of monarchical institutions. Yet the field of individual practical enterprise is restricted by the provoking impediments put upon every hand by the government, and commerce is dead in such little esteem throughout the country that young people of the middle class higher classes aspire to a university education, and there are even peasants' sons among them who are to be found among the great ranks of the highest school in the country. Of late the government has issued decrees, however, for aiding sons of peasants, for whom one of the lower grades is to be admitted to schools of higher learning. It is not for scientific genius, but great art or labor will be brought forth in this in schools unless it comes from the higher classes of the people.

A part from the higher professional schools and universities, there, in Russia, stand about 4,000 technical schools, even higher than in other European countries, the schools of the country can be classified as schools run by the government and schools run by the people—whether it be private educators—municipalities or the rural assemblies, called zemstvos.

Directly under the sway of the government in the ministry of public education are the different military schools corresponding to West Point, the two towns classical gymnasiums for boys, a school midway between the American grammar school and college and the lower district primary schools in towns and cities. In this same category may be classed such of the rural schools as had been placed of late by the government under the direction of the ignorant and illiterate clergy, with instructions to keep education in the country at as low a cost as possible, according to the policy of the government "to avoid creating dangers of party education and awakening sentiments which the economic powers of the nation cannot satisfy."

All those schools, with the exception of the military ones, are conducted with a view of giving the pupils a classical training; since the time is not master, but time is the master, in order to prevent children from ascertaining the true nature of practical tendencies, fostered by a scientific course of study, boys in the government gymnasiums are kept at Greek and Latin after ten years of age, and are thus doomed to devote many years of study, quite unnecessary for their studies, unless they have the means and the exceptions, strength required for going through the whole course of classical education.

Evidently must it be said, however, not all the schools come under the direct supervision of the government. Government restraint makes, except one master, something of a forearm fruit, and sweet to the people accordingly. Most of the educated, enlightened people, not wholly engrossed yet in their own self-interest, are taking great and active interest in public education. Such rural schools as have been kept going, put under the care, in the influence of the uneducated, unambitious, unprogressive, are prospering under the protection of liberal minded proprietors and the provinces, themselves, teachers are engrossed, by their work; they often gain over the conductance of children, organize frequent botanical and other parties with them, fitting all beyond the limits set by the text books approved by the ministry of public education, and, through the influence of the parents, generally succeed in awakening the interest of the parents. This after all, attained, money is easily collected, and associations organized in the villages to the mutual benefit of young and old.

While throughout the country school reports are scarcely attainable—the progress of education being disguised so as not to awaken the misgivings of the government—the showing of the inspectors on the education in St. Petersburg is very wonderful indeed. It is but six years since the local boards of education, consisting of a number of mostly courtiers and enigmas, men among them members, had a public education its favorite concern, and this is now they succeeded.

Now there exist but sixteen primary schools in St. Petersburg, with 800 school children, and those conducted in the whole department of primary education in the city, containing then 8000 inhabitants, and these schools were supported on the sum of £150,000 (or nearly \$70,000) yearly. In 1887 there were sixteen schools, in which 2300 primary schools, in which 2000 children receive instruction, there

being 400 pounds, and whose oxen, sheep and pigs are raised by the score. All of the great people in the south were present. A. T. Lee says that his father, George, was Gen. Jackson's driver and his most trusted servant. His account of his old master's care is very pathetic.

"The general was mighty sick," he says,

"and one morning the doctor sent me to Nashville to get six bottles of gin.

When I got home they said old master

was dying, and the negroes crowded

into the house to see him and tell him good-bye. The doctors told them that they must all sit out, but the general is up and says, 'Let 'em stay, I want to see 'em.' My master was sitting on the bed holding the general's hand on a pillow.

The general then says, 'George, tell my old countrymen rest easier, and these were the last words he ever said. When the pilot was taken out and his head straightened out he closed his eyes and died without a struggle.'

* * *

"I will remember that Gen. Jackson

brought a man with him for making some

some kind of his wife's name. The

old servant says he rarely met his wife,

and in conversation he spoke to the

old woman who remained to the general

and his wife.

The graves were cut

in a bed of solid masonry under a stone

canopy supported by six stone pillars.

"There," said George, pointing to a seat

over Mrs. Jackson's grave, "read what

is written on the stone—it was written by the general."

"The inscription, cut in the last

letter, with some words omitted and

read above the words written, is as

follows: 'He is buried here.'

Here lie the remains of Mrs. Rachel Jackson, wife of President Jackson, who died Dec. 22, 1888, aged 90 years. Her body was fair, person pleasing, high-spirited and amiable, and her character was distinguished by the tenderness of her fellow creatures, and an interest that divine pleasure by the most benevolent and unpretending methods. To the poor she was a benefactor, to the rich an example and to the wretched a comforter. Her purity went hand and hand with her benevolence, and she thanked her Creator for being permitted to do good, to be a gentle and yet so virtuous. Slander might wound but could not despoil. Even death, when he took her from the arms of her husband, could not transplant her to the bosom of the God.

"Yes, will you wait until we die,"

said Uncle A. Lee, continuing, after he had

read the inscriptions in the entombment.

"The carriage was at the entrance, the

train was ready to start for Washington.

At once the general was ready to start for Washington. At once the carriage was ready to start for Washington.

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GREEN MOUNTAIN FAIR

Is Steadily Increasing Popularity
as a Resort.

The Prospects and Growing Novelty in the Pass.

What the Green Mountain Fair
January has Done.

A Handsome New Hotel Opened
in the Park.

It was less than a year ago that the site upon which the town of Green Mountain Fair now stands was placed in the hands of Mr. W. L. Foster, who was then doing a real estate business in the city, to sell as a ranch property. The noise made by the ponderous locomotive drawing its train over the steep grades of the Colorado Midland was the only sound that awakened the echoes in the valley where Nature has bestowed upon it the grandest and most magnificent scenery, trying and invigorating air, water abundance, all of which make truly a garden spot offering extraordinary advantages to the health and pleasure seeker alike. No nature gifts to Green Mountain Fair company had added everything that modern genius can improvise. The improvements made by the company have been carried on under able management of Mr. W. L. Foster, the vice president and general manager, who deserves great credit for the sagacity he displayed in recognizing the availability of Green Mountain Fair as a resort.

Mr. F. L. Dow has lately become president of the company, and by the large amount of capital which he has invested continues to insure its financial stability.

ways. Perhaps the pretties of the fair are the one which follows the trail, a gentle grace by the valley, now on one side of the stream, now on the other, at the peak above the town where another stream comes down the steep mountain sides forming a series of precipitous falls which are in some respects grander than the Green Mountain.

A large pavilion is to be erected here and a transfer omnibus is to run from the hotel. A dozen springs flow from the mountain at different points, some of which are sulphur and iron. The properties of these springs are said to be fully as valuable as some of those which are better known. It is impossible to estimate the great future of Green Mountain Fair as a resort. Situated as it is on the main line of the Colorado Midland with connections at this city with the great railroad lines from the east and from the Pacific slope, it is easy of access from any point in the country. Nature has bestowed upon it the grandest and most magnificent scenery, trying and invigorating air, water abundance, all of which make truly a garden spot offering extraordinary advantages to the health and pleasure seeker alike. No nature gifts to Green Mountain Fair company had added everything that modern genius can improvise. The improvements made by the company have been carried on under able management of Mr. W. L. Foster, the vice president and general manager, who deserves great credit for the sagacity he displayed in recognizing the availability of Green Mountain Fair as a resort.

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Public School Library.

The need of a public library has long been a matter of comment by strangers to the city and without such an institution, the pupils of the public schools, have been raising money little by little to add to their collection of books, and now the teachers have taken the matter in hand. At a late meeting of the Teachers' association a committee was appointed to formulate a plan which would interest a number of persons in the matter. It is noted a thousand dollars can be raised and that the result will likely be a really good library. The report of the committee was as follows:

To the Members of the City Teachers' Association:

Your committee appointed to consider and report upon the library question brought up before you at the last regular meeting of the teachers beg leave to recommend as follows:

1st. That we, the teachers of the public schools of Colorado Springs, unite with the pupils in an effort to increase the number of volumes in the public school library.

2d. That to this end the teachers in the public schools in the art of writing letters and addressing envelopes having in view the subject matter of the contents of the postal card heretofore referred to, and that each teacher suggest to the class the possibility of sending these letters to such distant friends as are likely to contribute to the library fund.

3d. That 100 postal cards be purchased and printed with the following subject matter:

COLORADO SPRINGS, CO., Novemr 1888.

My Dear.....
The pupils and teachers of the public schools of Colorado Springs have undertaken to raise \$500 for the purchase of books for their library to which the citizens may have access. We confidently expect to have friends throughout the United States for the purpose of helping us in our efforts. The money will be used to purchase books for the library and store rooms. The two upper floors are devoted to sleeping rooms both single and suites. Under the two eaves which cover the building are two large octagon shaped apartments, one of which is to be a smoking room and the other an assembly room for ladies. The water is supplied throughout with electric lights and hot and cold water. No expense seems to have been spared where the comfort of the guests might be increased. Far up back of the hotel through a rugged hollow out by the water, between Mr. Reeser and Mr. Fisher, the Green Mountain creek comes down the mountain side, burring in its mad course over rocks and boulders, forming a long series of falls. To along the stream a narrow but well kept trail, takes a steep and circuitous course to the summit of the mountains, every here and there seat in some quiet and shady nook is provided for the weary traveler. It is proposed to build a tramway to be run by water power up this trail, in the near future which will connect at the top with the wagon road to Pikes Peak. About half a mile above the lake the stream has been dammed and water works built from which pipelines carry the water with a pressure of 80 pounds to the town below. The streets of the town are dirt, rather with a view to picturesqueness than regularity. They wind along the banks of the streams and into the neighboring valleys, forming attractive and pleasant drives. The grounds along the streets have been laid out in lots, many of which have been sold and some of which cottages have already been erected or are in the course of erection. Last summer the many visitors to the fair were accommodated in tents which dot the mountain side and form a curious picture, their white tops contrasting strangely with the green of the surrounding trees. Those tents, over a hundred in number, were all occupied during most of the summer, and even next year, when hotels and cottages will furnish more comfortable accommodations, it is probable that many will still prefer tents. Those who have been to the resort this summer and who return next summer will find many pleasant changes. A number of men are at work over the place improving it. The big dancing pavilion is to be surrounded by grassy plots and the slope to the lake is to be sodded, electric lights are to be put in all through the parks, a fountain is to be placed in front of the hotel and the streets to be leveled off into drive ways.

Messrs. L. W. Foster and C. S. Sprague of the Green Mountain Fair company recently for the east, where they will engage themselves in advertising Green Mountain Fair and other Pikes Peak resorts.

George C. & Co. have been making some extensive improvements in their place of business on Pikes Peak avenue.

In addition to the handsome glass front mentioned some days ago, they have increased their store room by the addition of a building 25x50 feet, in the rear. This was a bare basement, paneled and new ceiling put in. They would like to know what can be done in the way of handsome wall papering to call and look at their new rooms.

A. C. Yington is respectfully submitted,

E. E. Norton,
E. X. La Barrie,
Lillian Bartlett,
E. N. Schopff.

E. C. Yington, Committee.

The committee appointed to select books is as follows:

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